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## PATENT COOPERATION TREATY

## **PCT**

REC'D 1 1 OCT 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORTO

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification	n of Transmittal of International		
F156522	PUR PURIMER ACTION	Preliminary Ex	tamination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/mon	th/year)	Priority date (day/month/year)		
PCT/US02/06659	26 March 2002 (26.03.2002)				
International Patent Classification (IPC)	or national classification and IPC				
IPC(7): F02M 43/02 and US Cl.: 123/30	4,575				
Applicant					
MOODY, JOHN, A.					
Examining Authority and i	ary examination report has bee is transmitted to the applicant a	ccording to Ar	ticle 36.		
2. This REPORT consists of	a total of <u>sheets</u> , including	this cover shee	et.		
which have been ame	ended and are the basis for this	report and/or s	description, claims and/or drawings sheets containing rectifications made nistrative Instructions under the PCT).		
These annexes consist of a	total of sheets.				
3. This report contains indica	ations relating to the following	items:			
I Basis of the rep	ort				
II Priority	•		•		
III Non-establishm	ent of report with regard to nov	elty, inventive	step and industrial applicability		
IV Lack of unity o	f invention				
	nent under Article 35(2) with re	egard to novel	y, inventive step or industrial		
applicability; ci	tations and explanations suppor	ting such state	ment		
VI Certain docume	ents cited				
VII Certain defects	VII Certain defects in the international application				
VIII Certain observa	tions on the international applications	cation			
Date of submission of the demand	Date	of completion	of this report		
23 October 2003 (23.10.2003)	06\Se	eptember 2004 (	06.09.2004)		
Name and mailing address of the IPEA/	US Annh	orized officer	>		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	//T	1-11	\		
P.O. Box 1450 Alexandria, Virginia 22313-1450	′ / 1	n Henry	209 0961		
Facsimile No. (703) 305-3230	\	phohe No. (703	) 300-0001		



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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PCT/US02/06659

Jn.

I. Basis of the report With regard to the elements of the international application:\* the international application as originally filed. the description: as originally filed pages 1-7 , filed with the demand pages NONE , filed with the letter of pages NONE the claims: , as originally filed pages 8-16 \_\_, as amended (together with any statement) under Article 19 pages NONE \_, filed with the demand pages NONE , filed with the letter of pages NONE the drawings: pages 1 , as originally filed \_\_\_\_, filed with the demand pages NONE , filed with the letter of pages NONE the sequence listing part of the description: pages NONE \_\_\_\_\_, as originally filed \_\_\_, filed with the demand pages NONE \_\_, filed with the letter of pages NONE 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. The amendments have resulted in the cancellation of: the description, pages NONE the claims, Nos. NONE the drawings, sheets/fig NONE This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\* \* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). \*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US02/06659

	V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
I. STATEMENT	Γ							
Novelty (N)		Claims	2-6 11 15-19 24 28 29	YES				
		Claims	1 7-10 12-14 20-23 25-27 30-32	NO				
Taylout	ive Step (IS)	Claims	NONE	YES				
шчени	ive step (15)	Claims	•	NO				
				T.T.O.				
Industrial Applicability (IA	rial Applicability (IA)	Claims		YES NO				
		Claims	NONE	NO				
component, and sto intermittent pump ( engine (20). A cor of fuel components variable pressure p Claims 2-6, 11, 15 Chan U.S. Patent 1	ores these fuel components in s (16), and the low octane fuel c ntroller (1) identifies a running supplied to the engine (20) accomp (15) so that the determine (-19, 24, 28 and 29 lack an inv Number 5.560.344. Hyama et	subtanks (10, 11) omponent is supported to the rocording to the ideal proportion is a centive step under al. failed to show	in tank (8) into a high-octane fuel component. The high-octane fuel component is supplied blied by a variable pressure pump (15), to a futation speed and loads of the engine (20), deternified running region and controls a discharge chieved.  PCT Article 33(3) as being obvious over Ilyay the duel tank as claimed in application. Howels system for different octane fuels.	by a nign-pressure el injector (17) of the rmines the proportion ge pressure of the ama et al in view of				
	NEW CITATIONS	;						
NONE								

Form PCT/IPEA/409 (Box V) (July 1998)